Index to Volume 8

A

ABRAHAM, WICKLIFFE C. See Cohen, Akiva S. 160
ACSÁDY, LÁSZLÓ. See Kamondi, Anita 244
Active Navigation: Role of Visual and Non-Visual Cues in Controlling Cellular Representations of Space, Superior Colliculus and 340
Age-Related Deficits on the Radial Maze and in Fear Conditioning: Hippocampal Processing and Consolidation 402
Aging, Memory, and Hippocampal Spatial Representation . . 431
ALONSO, JOSÉ R. See Martínez-Guijarro, Francisco J. 2
Alteration of NMDA Receptor-Mediated Synaptic Responses in CA1 Area of the Aged Rat Hippocampus: Contribution of GABAergic and Cholinergic Deficits 627
Amnesia and the Organization of the Hippocampal System . 212
Amnesia, the Hippocampus, and Episodic Memory 197
AMPA Receptor Properties by Exogenous Phospholipase A_2 in the Hippocampus, Bidirectional Modulation of 299
Analysis of the Interaction Between Arachidonic Acid and Metabotropic Glutamate Receptor Activation Reveals That Phospholipase C Acts as a Coincidence Detector in the Expression of Long-Term Potentiation in the Rat Dentate Gyrus 48
ANDRADE, JOSÉ P., MARIA D. MADEIRA, AND MANUEL M. PAULA-BARBOSA. Differential Vulnerability of the Subiculum and Entorhinal Cortex of the Adult Rat to Prolonged Protein Deprivation 33
Anterior Thalamus of Freely Moving Rats, Comparisons of Head Direction Cell Activity in the Postsubiculum and 87
Arachidonic Acid and Metabotropic Glutamate Receptor Activation Reveals That Phospholipase C Acts as a Coincidence Detector in the Expression of Long-Term Potentiation in the Rat Dentate Gyrus, Analysis of the Interaction Between 48
AROLFO, MARIA PIA, MANUELA A. ZANUDIO, AND OSCAR A. RAMIREZ. Baclofen Infused in Rat Hippocampal Formation Impairs Spatial Learning 109
Auditory Trace Fear Conditioning and Contextual Fear Conditioning in the Rat, Hippocampectomy Disrupts 638
Axo-Dendritic Integrity After Traumatic Brain Injury, Glutamate Antagonism During Secondary Deafferentation Enhances Cognition and 390

B

Baclofen Infused in Rat Hippocampal Formation Impairs Spatial Learning 109
BARAM, TALLIE Z. See Yan, Xiao-Xin 231
BARNES, C.A. See Redish, A.D. 438
BAUDRY, MICHEL. See Chabot, Chantale 299
BECHMANN, INGO. See Kluge, Annegret 57
BERNARD, JULIE. See Chabot, Chantale 299
BERTHOZ, ALAIN. See Gavrilov, Vladimir V. 475
Bidirectional Modulation of AMPA Receptor Properties by Exogenous Phospholipase A_2 in the Hippocampus 299
BILKEY, DAVID K. See Liu, Ping 114
BILKEY, DAVID K. See Liu, Ping 424
BILKEY, DAVID K. See Muir, Gary M. 526
BILLARD, J.M. See Jouvenceau, A. 627
BOUWMEESTER, HANS. See McEchron, Matthew D. 638
BRIÑÓN, JESÚS G. See Martínez-Guijarro, Francisco J. 2
BRONZINO, JOSEPH D. See Mokler, David J. 262
BRUNEL, NICOLAS AND OLIVIER TRULLIER. Plasticity of Directional Place Fields in a Model of Rodent CA3 651
BUFFALO, ELIZABETH A., PAUL J. REBER, AND LARRY R. SQUIRE. Human Perirhinal Cortex and Recognition Memory 330
BURES, JAN. See Czéh, Boldizsár 647
BUZSÁKI, GYÖRGY. See Kamondi, Anita 244

C

CA1 Pyramidal Cells Are Dependent on Tetanization Parameters, Effects of $GABA_A$ Inhibition on the Expression of Long-Term Potentiation in 289
CA1 Pyramidal Cells in Rat Hippocampal Slice, NMDA Receptor-Independent LTP in Basal Versus Apical Dendrites of 373
CA1 Region of Rat Hippocampal Slices, Extracellular Acidosis and High Levels of Carbon Dioxide Suppress Synaptic Transmission and Prevent the Induction of Long-Term Potentiation in the 24
CA3 and the Dentate Gyrus Revealed by Current Source Density Analysis, Functional Interconnections Between . . . 217
CA3, $GABA_B$ Modulation Improves Sequence Disambiguation in Computational Models of Hippocampal Region 171
CA3 Hippocampal Pyramids: Physiological Relevance to Theta Rhythm Generation, Intrinsic Oscillations in 666
CA3 Neurons Following Status Epilepticus but Prior to Cell Loss, Selective Reduction of GluR2 Protein in Adult Hippocampal 511
CA3 Pyramidal Cells to Kainate-Induced Epileptiform Discharges, Residual Granule Cells Can Maintain Susceptibility of 548
CANNING, KEVIN J. See Wu, Kun. 217
CASTELLANO, BERNARDO. See Dalmau, Ishar. 458
ÇAVUS, IDIL AND TIMOTHY J. TEYLER. NMDA Receptor-Independent LTP in Basal Versus Apical Dendrites of CA1 Pyramidal Cells in Rat Hippocampal Slice 373
Cellular Representations of Space, Superior Colliculus and Active Navigation: Role of Visual and Non-Visual Cues in Controlling 340
CHABOT, CHANTALE, JOËL GAGNÉ, CAROLINE GIGUÈRE, JULIE BERNARD, MICHEL BAUDRY, AND GUY MASSICOTTE. Bidirectional Modulation of AMPA Receptor Properties by Exogenous Phospholipase A_2 in the Hippocampus 299
CHAPMAN, C. ANDREW, YAËL PEREZ, AND JEAN-CLAUDE LACAILLE. Effects of $GABA_A$ Inhibition on the Expression of Long-Term Potentiation in CA1 Pyramidal Cells Are Dependent on Tetanization Parameters 289
Cholinergically Mediated (Type II) Hippocampal Theta, Synchronous Modulation of Perirhinal Cortex Neuronal Activity During 526
Cingulo-Thalamic Neuronal Activity and Discriminative Avoidance Learning in Rabbits, Hippocampal Modulation of 491
CLARK, KATHERINE A. See Steel, Muriel 444
COHEN, AKIVA S., CLARKE R. RAYMOND, AND WICKLIFFE C. ABRAHAM. Priming of Long-Term Potentiation Induced by Activation of Metabotropic Glutamate Receptors Coupled to Phospholipase C 160
Colocalization With Glutamate Decarboxylase and Parvalbumin, Corticotropin-Releasing Hormone (CRH)-Containing Neurons in the Immature Rat Hippocampal Formation: Light and Electron Microscopic Features and 231
Comparisons of Head Direction Cell Activity in the Postsubiculum and Anterior Thalamus of Freely Moving Rats . . . 87

Index to Volume 8

A

ABRAHAM, WICKLIFFE C. See Cohen, Akiva S. 160
ACSÁDY, LÁSZLÓ. See Kamondi, Anita 244
Active Navigation: Role of Visual and Non-Visual Cues in Controlling Cellular Representations of Space, Superior Colliculus and 340
Age-Related Deficits on the Radial Maze and in Fear Conditioning: Hippocampal Processing and Consolidation 402
Aging, Memory, and Hippocampal Spatial Representation . . 431
ALONSO, JOSÉ R. See Martínez-Guijarro, Francisco J. 2
Alteration of NMDA Receptor-Mediated Synaptic Responses in CA1 Area of the Aged Rat Hippocampus: Contribution of GABAergic and Cholinergic Deficits 627
Amnesia and the Organization of the Hippocampal System . 212
Amnesia, the Hippocampus, and Episodic Memory 197
AMPA Receptor Properties by Exogenous Phospholipase A_2 in the Hippocampus, Bidirectional Modulation of 299
Analysis of the Interaction Between Arachidonic Acid and Metabotropic Glutamate Receptor Activation Reveals That Phospholipase C Acts as a Coincidence Detector in the Expression of Long-Term Potentiation in the Rat Dentate Gyrus 48
ANDRADE, JOSÉ P., MARIA D. MADEIRA, AND MANUEL M. PAULA-BARBOSA. Differential Vulnerability of the Subiculum and Entorhinal Cortex of the Adult Rat to Prolonged Protein Deprivation 33
Anterior Thalamus of Freely Moving Rats, Comparisons of Head Direction Cell Activity in the Postsubiculum and 87
Arachidonic Acid and Metabotropic Glutamate Receptor Activation Reveals That Phospholipase C Acts as a Coincidence Detector in the Expression of Long-Term Potentiation in the Rat Dentate Gyrus, Analysis of the Interaction Between 48
AROLFO, MARIA PIA, MANUELA A. ZANUDIO, AND OSCAR A. RAMIREZ. Baclofen Infused in Rat Hippocampal Formation Impairs Spatial Learning 109
Auditory Trace Fear Conditioning and Contextual Fear Conditioning in the Rat, Hippocampectomy Disrupts 638
Axo-Dendritic Integrity After Traumatic Brain Injury, Glutamate Antagonism During Secondary Deafferentation Enhances Cognition and 390

B

Baclofen Infused in Rat Hippocampal Formation Impairs Spatial Learning 109
BARAM, TALLIE Z. See Yan, Xiao-Xin 231
BARNES, C.A. See Redish, A.D. 438
BAUDRY, MICHEL. See Chabot, Chantale 299
BECHMANN, INGO. See Kluge, Annegret 57
BERNARD, JULIE. See Chabot, Chantale 299
BERTHOZ, ALAIN. See Gavrilov, Vladimir V. 475
Bidirectional Modulation of AMPA Receptor Properties by Exogenous Phospholipase A_2 in the Hippocampus 299
BILKEY, DAVID K. See Liu, Ping 114
BILKEY, DAVID K. See Liu, Ping 424
BILKEY, DAVID K. See Muir, Gary M. 526
BILLARD, J.M. See Jouvenceau, A. 627
BOUWMEESTER, HANS. See McEchron, Matthew D. 638
BRIÑÓN, JESÚS G. See Martínez-Guijarro, Francisco J. 2
BRONZINO, JOSEPH D. See Mokler, David J. 262
BRUNEL, NICOLAS AND OLIVIER TRULLIER. Plasticity of Directional Place Fields in a Model of Rodent CA3 651
BUFFALO, ELIZABETH A., PAUL J. REBER, AND LARRY R. SQUIRE. Human Perirhinal Cortex and Recognition Memory 330
BURES, JAN. See Czéh, Boldizsár 647
BUZSÁKI, GYÖRGY. See Kamondi, Anita 244

C

CA1 Pyramidal Cells Are Dependent on Tetanization Parameters, Effects of $GABA_A$ Inhibition on the Expression of Long-Term Potentiation in 289
CA1 Pyramidal Cells in Rat Hippocampal Slice, NMDA Receptor-Independent LTP in Basal Versus Apical Dendrites of 373
CA1 Region of Rat Hippocampal Slices, Extracellular Acidosis and High Levels of Carbon Dioxide Suppress Synaptic Transmission and Prevent the Induction of Long-Term Potentiation in the 24
CA3 and the Dentate Gyrus Revealed by Current Source Density Analysis, Functional Interconnections Between . . . 217
CA3, $GABA_B$ Modulation Improves Sequence Disambiguation in Computational Models of Hippocampal Region 171
CA3 Hippocampal Pyramids: Physiological Relevance to Theta Rhythm Generation, Intrinsic Oscillations in 666
CA3 Neurons Following Status Epilepticus but Prior to Cell Loss, Selective Reduction of GluR2 Protein in Adult Hippocampal 511
CA3 Pyramidal Cells to Kainate-Induced Epileptiform Discharges, Residual Granule Cells Can Maintain Susceptibility of 548
CANNING, KEVIN J. See Wu, Kun. 217
CASTELLANO, BERNARDO. See Dalmau, Ishar. 458
ÇAVUS, IDIL AND TIMOTHY J. TEYLER. NMDA Receptor-Independent LTP in Basal Versus Apical Dendrites of CA1 Pyramidal Cells in Rat Hippocampal Slice 373
Cellular Representations of Space, Superior Colliculus and Active Navigation: Role of Visual and Non-Visual Cues in Controlling 340
CHABOT, CHANTALE, JOËL GAGNÉ, CAROLINE GIGUÈRE, JULIE BERNARD, MICHEL BAUDRY, AND GUY MASSICOTTE. Bidirectional Modulation of AMPA Receptor Properties by Exogenous Phospholipase A_2 in the Hippocampus 299
CHAPMAN, C. ANDREW, YAËL PEREZ, AND JEAN-CLAUDE LACAILLE. Effects of $GABA_A$ Inhibition on the Expression of Long-Term Potentiation in CA1 Pyramidal Cells Are Dependent on Tetanization Parameters 289
Cholinergically Mediated (Type II) Hippocampal Theta, Synchronous Modulation of Perirhinal Cortex Neuronal Activity During 526
Cingulo-Thalamic Neuronal Activity and Discriminative Avoidance Learning in Rabbits, Hippocampal Modulation of 491
CLARK, KATHERINE A. See Steel, Muriel 444
COHEN, AKIVA S., CLARKE R. RAYMOND, AND WICKLIFFE C. ABRAHAM. Priming of Long-Term Potentiation Induced by Activation of Metabotropic Glutamate Receptors Coupled to Phospholipase C 160
Colocalization With Glutamate Decarboxylase and Parvalbumin, Corticotropin-Releasing Hormone (CRH)-Containing Neurons in the Immature Rat Hippocampal Formation: Light and Electron Microscopic Features and 231
Comparisons of Head Direction Cell Activity in the Postsubiculum and Anterior Thalamus of Freely Moving Rats . . . 87

Conditiional Associative Learning and the Hippocampal System . . . 131
Conditioning, Awareness, and the Hippocampus . . . 620
Configural Learning by Reducing Proactive Interference, Hippocampal Lesions Enhance . . . 138
Contextual Fear Conditioning in the Rat, Hippocampectomy Disrupts Auditory Trace Fear Conditioning and . . . 638
Contingent Versus Incidental Context Processing During Conditioning: Dissociation After Excitotoxic Hippocampal Plus Dentate Gyrus Lesions . . . 147
COOPER, B.G., D.Y. MIYA, AND S.J.Y. MIZUMORI. Superior Colliculus and Active Navigation: Role of Visual and Non-Visual Cues in Controlling Cellular Representations of Space . . . 340
Corticotropin-Releasing Hormone (CRH)-Containing Neurons in the Immature Rat Hippocampal Formation: Light and Electron Microscopic Features and Colocalization With Glutamate Decarboxylase and Parvalbumin . . . 231
CZÉH, BOLDIZSÁR, LÁSZLÓ SERESS, AND GÁBOR CZÉH. Residual Granule Cells Can Maintain Susceptibility of CA3 Pyramidal Cells to Kainate-Induced Epileptiform Discharges . . . 548
CZÉH, BOLDIZSÁR, LÁSZLÓ SERESS, LYNN NADEL, AND JAN BURES. Lateralized Fascia Dentata Lesion and Blockade of One Hippocampus: Effect on Spatial Memory in Rats . . . 647
CZÉH, GÁBOR. See Czéh, Boldizsár . . . 548

D

DALMAU, ISHAR, BENTE FINSEN, JENS ZIMMER, BERTA GONZÁLEZ, AND BERNARDO CASTELLANO. Development of Microglia in the Postnatal Rat Hippocampus . . . 458
DAVIES, CERI. H. See Steel, Muriel . . . 444
DE HOZ, L. See Good, M. . . . 147
Dentate Gyrus Lesions, Contingent Versus Incidental Context Processing During Conditioning: Dissociation After Excitotoxic Hippocampal Plus . . . 147
Dentate Gyrus Revealed by Current Source Density Analysis, Functional Interconnections Between CA3 and the . . . 217
Development of Microglia in the Postnatal Rat Hippocampus . . . 458
Differential Vulnerability of the Subiculum and Entorhinal Cortex of the Adult Rat to Prolonged Protein Deprivation . . 33
Discharge Correlates of Hippocampal Complex Spike Neurons in Behaving Rats Passively Displaced on a Mobile Robot . . . 475
Discriminative Avoidance Learning in Rabbits, Hippocampal Modulation of Cingulo-Thalamic Neuronal Activity and . . . 491
DISTERHOFT, JOHN F. See LaBar, Kevin S. . . . 620
DISTERHOFT, JOHN F. See McEchron, Matthew D. . . . 638
DIXON, MARK. See Mokler, David J. . . . 262
DORÉ, F.Y., J.A. THORNTON, N.M. WHITE, AND E.A. MURRAY. Selective Hippocampal Lesions Yield Nonspatial Memory Impairments in Rhesus Monkeys . . . 323
Dorsal and Median Raphé Nuclei in Conscious Rats, Serotonin Neuronal Release From Dorsal Hippocampus Following Electrical Stimulation of the . . . 262
Dorsal Hippocampus Following Electrical Stimulation of the Dorsal and Median Raphé Nuclei in Conscious Rats, Serotonin Neuronal Release From . . . 262
DUTAR, P. See Jouvenceau, A. . . . 627

E

Effects of $GABA_A$ Inhibition on the Expression of Long-Term Potentiation in CA1 Pyramidal Cells Are Dependent on Tetanization Parameters . . . 289
EICHENBAUM, HOWARD B. Amnesia, the Hippocampus, and Episodic Memory . . . 197
EICHENBAUM, HOWARD B. Hippocampus: A Vehicle for the "Hippocampal Community" . . . 1
EICHENBAUM, HOWARD. Aging, Memory, and Hippocampal Spatial Representation . . . 431
Electrophysiological Properties of Rat Hippocampal Principal Cells Are Unaltered by Prenatal Protein Malnutrition . 380
Entorhinal Cortex of the Adult Rat to Prolonged Protein Deprivation, Differential Vulnerability of the Subiculum and . . . 33
Entorhinal-Hippocampal Pathway In Vitro, Tracing of the . . 57
Episodic Memory, Semantic Memory, and Amnesia . . . 205
Excitotoxic Hippocampal Plus Dentate Gyrus Lesions, Contingent Versus Incidental Context Processing During Conditioning: Dissociation After . . . 147
Exogenous Phospholipase A_2 in the Hippocampus, Bidirectional Modulation of AMPA Receptor Properties by . . . 299
Extracellular Acidosis and High Levels of Carbon Dioxide Suppress Synaptic Transmission and Prevent the Induction of Long-Term Potentiation in the CA1 Region of Rat Hippocampal Slices . . . 24

F

Fear Conditioning: Hippocampal Processing and Consolidation, Age-Related Deficits on the Radial Maze and in . . . 402
FINSEN, BENTE. See Dalmau, Ishar . . . 458
FREUND, TAMÁS F. Nonsynaptic Chemical Neurotransmission in the Brain: A Review by Vizi and Kiss . . . 565
FRIEDMAN, LINDA K. Selective Reduction of GluR2 Protein in Adult Hippocampal CA3 Neurons Following Status Epilepticus but Prior to Cell Loss . . . 511
Functional Differentiation in the Hippocampus . . . 608
Functional Interconnections Between CA3 and the Dentate Gyrus Revealed by Current Source Density Analysis . . . 217

G

GABAergic and Cholinergic Deficits, Alteration of NMDA Receptor-Mediated Synaptic Responses in CA1 Area of the Aged Rat Hippocampus: Contribution of . . . 627
GABAergic Interneurons, Neurocalcin-Immunoreactive Cells in the Rat Hippocampus are . . . 2
$GABA_A$ Inhibition on the Expression of Long-Term Potentiation in CA1 Pyramidal Cells Are Dependent on Tetanization Parameters, Effects of . . . 289
$GABA_B$ Modulation Improves Sequence Disambiguation in Computational Models of Hippocampal Region CA3 . . . 171
GABRIEL, M. See Kang, E. . . . 491
GADIAN, DAVID G. See Mishkin, Mortimer . . . 212
GAGNÉ, JOËL. See Chabot, Chantale . . . 299
GALLAGHER, MICHELA. See Han, Jung-Soo . . . 138
GALLER, JANINA R. See Rushmore, Jarrett . . . 380
GAP-43 and SCG10, in the Hippocampal Formation of the Macaque Monkey: Nonradioactive In Situ Hybridization Study, Gene Expression of Growth-Associated Proteins, . . . 533
GAVRILOV, VLADIMIR V., SIDNEY I. WIENER, AND ALAIN BERTHOZ. Discharge Correlates of Hippocampal Complex Spike Neurons in Behaving Rats Passively Displaced on a Mobile Robot . . . 475
Gene Expression of Growth-Associated Proteins, GAP-43 and SCG10, in the Hippocampal Formation of the Macaque Monkey: Nonradioactive In Situ Hybridization Study . . . 533
Gene-Trapping to Identify and Analyze Genes Expressed in the Mouse Hippocampus . . . 444
GIGUÈRE, CAROLINE. See Chabot, Chantale . . . 299
GILES, RYAN. See Kesner, Raymond P. . . . 416
GluR2 Protein in Adult Hippocampal CA3 Neurons Following Status Epilepticus but Prior to Cell Loss, Selective Reduction of . . . 511
Glutamate Antagonism During Secondary Deafferentation Enhances Cognition and Axo-Dendritic Integrity After Traumatic Brain Injury . . . 390
Glutamate Decarboxylase and Parvalbumin, Corticotropin-Releasing Hormone (CRH)-Containing Neurons in the Immature Rat Hippocampal Formation: Light and Electron Microscopic Features and Colocalization With . . . 231

Glutamate-Stimulated Neuropeptide Y mRNA Expression in the Rat Dentate Gyrus: A Prominent Role of Metabotropic Glutamate Receptors 274
González, Berta. See Dalmau, Ishar 458
Good, M., L. de Hoz, and R.G.M. Morris. Contingent Versus Incidental Context Processing During Conditioning: Dissociation After Excitotoxic Hippocampal Plus Dentate Gyrus Lesions 147

H

Habib, Reza. See Lepage, Martin 313
Hailer, Nils P. See Kluge, Annegret 57
Hamm, R.J. See Phillips, L.L. 390
Han, Jung-Soo, Michela Gallagher, and Peter Holland. Hippocampal Lesions Enhance Configural Learning by Reducing Proactive Interference 138
Hasselmo, Michael E. See Sohal, Vikaas S. 171
Hayashi, Motoharu. See Higo, Noriyuki 533
Hidaka, Hiroyoshi. See Martínez-Guijarro, Francisco J. . . . 2
Higo, Noriyuki, Takao Oishi, Akiko Yamashita, Keiji Matsuda, and Motoharu Hayashi. Gene Expression of Growth-Associated Proteins, GAP-43 and SCG10, in the Hippocampal Formation of the Macaque Monkey: Nonradioactive In Situ Hybridization Study 533
HIPER Model, Hippocampal PET Activations of Memory Encoding and Retrieval: The 313
"Hippocampal Community," Hippocampus: A Vehicle for the 1
Hippocampal Complex Spike Neurons in Behaving Rats Passively Displaced on a Mobile Robot, Discharge Correlates of 475
Hippocampal Lesions Enhance Configural Learning by Reducing Proactive Interference 138
Hippocampal Modulation of Cingulo-Thalamic Neuronal Activity and Discriminative Avoidance Learning in Rabbits 491
Hippocampal PET Activations of Memory Encoding and Retrieval: The HIPER Model 313
Hippocampectomy Disrupts Auditory Trace Fear Conditioning and Contextual Fear Conditioning in the Rat 638
Hippocampus: A Vehicle for the "Hippocampal Community". 1
Holland, Peter. See Han, Jung-Soo 138
Horvath, Tamas L. See Kluge, Annegret 57
Human Entorhinal Cortex, Total Number of Neurons in the Layers of the 69
Human Perirhinal Cortex and Recognition Memory 330

I

Identify and Analyze Genes Expressed in the Mouse Hippocampus, Gene-Trapping to 444
Intrinsic Oscillations in CA3 Hippocampal Pyramids: Physiological Relevance to Theta Rhythm Generation 666
Is There a Direct Projection From Perirhinal Cortex to the Hippocampus? 424

J

Johnson, David W. See Mokler, David J. 262
Jouvenceau, A., P. Dutar, and J.M. Billard. Alteration of NMDA Receptor-Mediated Synaptic Responses in CA1 Area of the Aged Rat Hippocampus: Contribution of GABAergic and Cholinergic Deficits 627

K

Kainate-Induced Epileptiform Discharges, Residual Granule Cells Can Maintain Susceptibility of CA3 Pyramidal Cells to 548
Kamondi, Anita, László Acsády, Xiao-Jing Wang, and György Buzsáki. Theta Oscillations in Somata and Dendrites of Hippocampal Pyramidal Cells In Vivo: Activity-Dependent Phase-Precession of Action Potentials 244
Kang, E. and M. Gabriel. Hippocampal Modulation of Cingulo-Thalamic Neuronal Activity and Discriminative Avoidance Learning in Rabbits 491
Kearns, Ian R. See Steel, Muriel 444
Kesner, Raymond P. and Ryan Giles. Neural Circuit Analysis of Spatial Working Memory: Role of Pre- and Parasubiculum, Medial and Lateral Entorhinal Cortex 416
Kiss, Janos P. See Vizi, E. Sylvester 566
Kluge, Annegret, Nils P. Hailer, Tamas L. Horvath, Ingo Bechmann, and Robert Nitsch. Tracing of the Entorhinal-Hippocampal Pathway In Vitro 57

L

LaBar, Kevin S. and John F. Disterhoft. Conditioning, Awareness, and the Hippocampus 620
Lacaille, Jean-Claude. See Chapman, C. Andrew 289
Lariviere, Donna. See Mokler, David J. 262
Lateralized Fascia Dentata Lesion and Blockade of One Hippocampus: Effect on Spatial Memory in Rats 647
Lathe, Richard. See Steel, Muriel 444
Lebel, S. See Sziklas, V. 131
Lepage, Martin, Reza Habib, and Endel Tulving. Hippocampal PET Activations of Memory Encoding and Retrieval: The HIPER Model 313
Lesions of Perirhinal Cortex Produce Spatial Memory Deficits in the Radial Maze 114
Leung, L. Stan. See Wu, Kun 217
Liu, Ping and David K. Bilkey. Is There a Direct Projection From Perirhinal Cortex to the Hippocampus? 424
Liu, Ping and David K. Bilkey. Lesions of Perirhinal Cortex Produce Spatial Memory Deficits in the Radial Maze 114
Long-Term Potentiation in the Rat Dentate Gyrus, Analysis of the Interaction Between Arachidonic Acid and Metabotropic Glutamate Receptor Activation Reveals That Phospholipase C Acts as a Coincidence Detector in the Expression of 48
Luebke, Jennifer. See Rushmore, Jarrett 380
Lyeth, B.G. See Phillips, L.L. 390
Lynch, M.A. See McGahon, B. 48

M

Madeira, Maria D. See Andrade, José P. 33
Markowitsch, Hans J. See Tulving, Endel 198
Markus, Etan J. See Oler, Jonathan A. 402
Martínez-Guijarro, Francisco J., Jesús G. Briñón, José M. Blasco-Ibáñez, Katsuo Okazaki, Hiroyoshi Hidaka, and José R. Alonso. Neurocalcin-Immunoreactive Cells in the Rat Hippocampus are GABAergic Interneurons 2
Massicotte, Guy. See Chabot, Chantale 299
Matsuda, Keiji. See Higo, Noriyuki 533
McEchron, Matthew D., Hans Bouwmeester, Wilbur Tseng, Craig Weiss, and John F. Disterhoft. Hippocampectomy Disrupts Auditory Trace Fear Conditioning and Contextual Fear Conditioning in the Rat 638
McGahon B. and M.A. Lynch. Analysis of the Interaction Between Arachidonic Acid and Metabotropic Glutamate Receptor Activation Reveals That Phospholipase C Acts as a Coincidence Detector in the Expression of Long-Term Potentiation in the Rat Dentate Gyrus 48
McNaughton, B.L. See Redish, A.D. 438
Medial and Lateral Entorhinal Cortex, Neural Circuit Analysis of Spatial Working Memory: Role of Pre- and Parasubiculum, ... 416
Median Raphé Nuclei in Conscious Rats, Serotonin Neuronal Release From Dorsal Hippocampus Following Electrical Stimulation of the Dorsal and 262
Memory Encoding and Retrieval: The HIPER Model, Hippocampal PET Activations of 313

Metabotropic Glutamate Receptor Activation Reveals That Phospholipase C Acts as a Coincidence Detector in the Expression of Long-Term Potentiation in the Rat Dentate Gyrus, Analysis of the Interaction Between Arachidonic Acid and . . . 48
Metabotropic Glutamate Receptors Coupled to Phospholipase C, Priming of Long-Term Potentiation Induced by Activation of . . . 160
Metabotropic Glutamate Receptors, Glutamate-Stimulated Neuropeptide Y mRNA Expression in the Rat Dentate Gyrus: A Prominent Role of . . . 274
Microglia in the Postnatal Rat Hippocampus, Development of . . . 458
MISHKIN, MORTIMER, FARANEH VARGHA-KHADEM, AND DAVID G. GADIAN. Amnesia and the Organization of the Hippocampal System . . . 212
MIYA, D.Y. See Cooper, B.G. . . . 340
MIZUMORI, S.J.Y. See Cooper, B.G. . . . 340
MOKLER, DAVID J., DONNA LARIVIERE, DAVID W. JOHNSON, NANCY L. THERIAULT, JOSEPH D. BRONZINO, MARK DIXON, AND PETER J. MORGANE. Serotonin Neuronal Release From Dorsal Hippocampus Following Electrical Stimulation of the Dorsal and Median Raphé Nuclei in Conscious Rats . . . 262
MORGANE, PETER J. See Mokler, David J. . . . 262
MORRIS, R.G.M. See Good, M. . . . 147
MORRIS, RICHARD G.M. See Steel, Muriel . . . 444
MOSER, EDVARD I. See Moser, May-Britt . . . 608
MOSER, MAY-BRITT AND EDVARD I. MOSER. Functional Differentiation in the Hippocampus . . . 608
MOSS, JULIE. See Steel, Muriel . . . 444
MUIR, GARY M. AND DAVID K. BILKEY. Synchronous Modulation of Perirhinal Cortex Neuronal Activity During Cholinergically Mediated (Type II) Hippocampal Theta . . . 526
MULLER, ROBERT U. See Taube, Jeffrey S. . . . 87
MURRAY, E.A. See Doré, F.Y. . . . 323

N

NADEL, LYNN. See Czéh, Boldizsár . . . 647
Neural Circuit Analysis of Spatial Working Memory: Role of Pre- and Parasubiculum, Medial and Lateral Entorhinal Cortex . . . 416
Neurocalcin-Immunoreactive Cells in the Rat Hippocampus are GABAergic Interneurons . . . 2
Neurochemistry and Pharmacology of the Major Hippocampal Transmitter Systems: Synaptic and Non-Synaptic Interactions . . . 566
NITSCH, ROBERT. See Kluge, Annegret . . . 57
NMDA Receptor-Independent LTP in Basal Versus Apical Dendrites of CA1 Pyramidal Cells in Rat Hippocampal Slice . . . 373
NMDA Receptor-Mediated Synaptic Responses in CA1 Area of the Aged Rat Hippocampus: Contribution of GABAergic and Cholinergic Deficits, Alteration of . . . 627
Nonspatial Memory Impairments in Rhesus Monkeys, Selective Hippocampal Lesions Yield . . . 323
Nonsynaptic Chemical Neurotransmission in the Brain: A Review by Vizi and Kiss . . . 565

O

OISHI, TAKAO. See Higo, Noriyuki . . . 533
OKAZAKI, KATSUO. See Martínez-Guijarro, Francisco J. . . . 2
OLER, JONATHAN A. AND ETAN J. MARKUS. Age-Related Deficits on the Radial Maze and in Fear Conditioning: Hippocampal Processing and Consolidation . . . 402
Organization of the Hippocampal System, Amnesia and the . . . 212

P

PAULA-BARBOSA, MANUEL M. See Andrade, José P. . . . 33
PEREZ, YAËL. See Chapman, C. Andrew . . . 289
Perirhinal Cortex and Recognition Memory, Human . . . 330
Perirhinal Cortex Neuronal Activity During Cholinergically Mediated (Type II) Hippocampal Theta, Synchronous Modulation of . . . 526
Perirhinal Cortex Produce Spatial Memory Deficits in the Radial Maze, Lesions of . . . 114
Perirhinal Cortex to the Hippocampus?, Is There a Direct Projection From . . . 424
PETRIDES, M. See Sziklas, V. . . . 131
PHILLIPS, L.L., B.G. LYETH, R.J. HAMM, T.M. REEVES, AND J.T. POVLISHOCK. Glutamate Antagonism During Secondary Deafferentation Enhances Cognition and Axo-Dendritic Integrity After Traumatic Brain Injury . . . 390
Phospholipase C Acts as a Coincidence Detector in the Expression of Long-Term Potentiation in the Rat Dentate Gyrus, Analysis of the Interaction Between Arachidonic Acid and Metabotropic Glutamate Receptor Activation Reveals That . . . 48
Phospholipase C, Priming of Long-Term Potentiation Induced by Activation of Metabotropic Glutamate Receptors Coupled to . . . 160
Plasticity of Directional Place Fields in a Model of Rodent CA3 . . . 651
Postsubiculum and Anterior Thalamus of Freely Moving Rats, Comparisons of Head Direction Cell Activity in the . . 87
POVLISHOCK, J.T. See Phillips, L.L. . . . 390
Pre- and Parasubiculum, Medial and Lateral Entorhinal Cortex, Neural Circuit Analysis of Spatial Working Memory: Role of . . . 416
Prenatal Protein Malnutrition, Electrophysiological Properties of Rat Hippocampal Principal Cells Are Unaltered by . . 380
Priming of Long-Term Potentiation Induced by Activation of Metabotropic Glutamate Receptors Coupled to Phospholipase C . . . 160
Processing of Spatial Information by the Aged Hippocampus as Shown by Place Cell Recording Studies: A Response to Peter Rapp's Commentary "Representational Organization in the Aged Hippocampus," Unique Features in the . . . 436
Protein Deprivation, Differential Vulnerability of the Subiculum and Entorhinal Cortex of the Adult Rat to Prolonged . . 33
Pyramidal Cells In Vivo: Activity-Dependent Phase-Precession of Action Potentials, Theta Oscillations in Somata and Dendrites of Hippocampal . . . 244

R

Radial Maze and in Fear Conditioning: Hippocampal Processing and Consolidation, Age-Related Deficits on the . . . 402
RAMIREZ, OSCAR A. See Arolfo, Maria Pia . . . 109
RAPP, PETER R. Representational Organization in the Aged Hippocampus . . . 432
RAYMOND, CLARKE R. See Cohen, Akiva S. . . . 160
REBER, PAUL J. See Buffalo, Elizabeth A. . . . 330
Recognition Memory, Human Perirhinal Cortex and . . . 330
Reconciling Barnes et al. (1997) and Tanila et al. (1997a,b) . . 438
REDISH, A.D., B.L. MCNAUGHTON, AND C.A. BARNES. Reconciling Barnes et al. (1997) and Tanila et al. (1997a,b) . . . 438
Reducing Proactive Interference, Hippocampal Lesions Enhance Configural Learning by . . . 138
REEVES, T.M. See Phillips, L.L. . . . 390
Representational Organization in the Aged Hippocampus . . . 432
Residual Granule Cells Can Maintain Susceptibility of CA3 Pyramidal Cells to Kainate-Induced Epileptiform Discharges . . . 548
RIBAK, CHARLES E. See Yan, Xiao-Xin . . . 231
Rodent CA3, Plasticity of Directional Place Fields in a Model of . . . 651
RUSHMORE, JARRETT, JENNIFER LUEBKE, AND JANINA R. GALLER. Electrophysiological Properties of Rat Hippocampal Principal Cells Are Unaltered by Prenatal Protein Malnutrition . 380

S

SCHULTZ, LINDA. See Yan, Xiao-Xin . . . 231

SCHWARZER, CHRISTOPH AND GÜNTHER SPERK. Glutamate-Stimulated Neuropeptide Y mRNA Expression in the Rat Dentate Gyrus: A Prominent Role of Metabotropic Glutamate Receptors . . . 274
Secondary Deafferentation Enhances Cognition and Axo-Dendritic Integrity After Traumatic Brain Injury, Glutamate Antagonism During . . . 390
Selective Hippocampal Lesions Yield Nonspatial Memory Impairments in Rhesus Monkeys . . . 323
Selective Reduction of GluR2 Protein in Adult Hippocampal CA3 Neurons Following Status Epilepticus but Prior to Cell Loss . . . 511
SERESS, LÁSZLÓ. See Czéh, Boldizsár . . . 548, 647
Serotonin Neuronal Release From Dorsal Hippocampus Following Electrical Stimulation of the Dorsal and Median Raphé Nuclei in Conscious Rats . . . 262
SKARNES, WILLIAM C. See Steel, Muriel . . . 444
SLOMIANKA, LUTZ. See West, Mark J. . . . 69
SOHAL, VIKAAS S. AND MICHAEL E. HASSELMO. $GABA_B$ Modulation Improves Sequence Disambiguation in Computational Models of Hippocampal Region CA3 . . . 171
Somata and Dendrites of Hippocampal Pyramidal Cells In Vivo: Activity-Dependent Phase-Precession of Action Potentials, Theta Oscillations in . . . 244
Source Density Analysis, Functional Interconnections Between CA3 and the Dentate Gyrus Revealed by Current . . . 217
Spatial Learning, Baclofen Infused in Rat Hippocampal Formation Impairs . . . 109
Spatial Mapping Takes Time . . . 122
Spatial Memory Deficits in the Radial Maze, Lesions of Perirhinal Cortex Produce . . . 114
Spatial Working Memory: Role of Pre- and Parasubiculum, Medial and Lateral Entorhinal Cortex, Neural Circuit Analysis of . . . 416
SPERK, GÜNTHER. See Schwarzer, Christoph. . . . 274
SQUIRE, LARRY R. AND STUART M. ZOLA. Episodic Memory, Semantic Memory, and Amnesia . . . 205
SQUIRE, LARRY R. See Buffalo, Elizabeth A. . . . 330
Status Epilepticus but Prior to Cell Loss, Selective Reduction of GluR2 Protein in Adult Hippocampal CA3 Neurons Following . . . 511
STEEL, MURIEL, JULIE MOSS, KATHERINE A. CLARK, IAN R. KEARNS, CERI. H. DAVIES, RICHARD G.M. MORRIS, WILLIAM C. SKARNES, AND RICHARD LATHE. Gene-Trapping to Identify and Analyze Genes Expressed in the Mouse Hippocampus. 444
STRATA, FABRIZIO. Intrinsic Oscillations in CA3 Hippocampal Pyramids: Physiological Relevance to Theta Rhythm Generation . . . 666
Subiculum and Entorhinal Cortex of the Adult Rat to Prolonged Protein Deprivation, Differential Vulnerability of the . . . 33
Superior Colliculus and Active Navigation: Role of Visual and Non-Visual Cues in Controlling Cellular Representations of Space . . . 340
Synaptic Transmission and Prevent the Induction of Long-Term Potentiation in the CA1 Region of Rat Hippocampal Slices, Extracellular Acidosis and High Levels of Carbon Dioxide Suppress . . . 24
Synchronous Modulation of Perirhinal Cortex Neuronal Activity During Cholinergically Mediated (Type II) Hippocampal Theta . . . 526
SZIKLAS, V., S. LEBEL, AND M. PETRIDES. Conditiional Associative Learning and the Hippocampal System . . . 131

T

TANILA, HEIKKI. Unique Features in the Processing of Spatial Information by the Aged Hippocampus as Shown by Place Cell Recording Studies: A Response to Peter Rapp's Commentary "Representational Organization in the Aged Hippocampus" . . . 436
TAUBE, JEFFREY S. AND ROBERT U. MULLER. Comparisons of Head Direction Cell Activity in the Postsubiculum and Anterior Thalamus of Freely Moving Rats . . . 87
Tetanization Parameters, Effects of $GABA_A$ Inhibition on the Expression of Long-Term Potentiation in CA1 Pyramidal Cells Are Dependent on . . . 289
TEYLER, TIMOTHY J. See Çavus, Idil . . . 373
THERIAULT, NANCY L. See Mokler, David J. . . . 262
Theta Oscillations in Somata and Dendrites of Hippocampal Pyramidal Cells In Vivo: Activity-Dependent Phase-Precession of Action Potentials . . . 244
THORNTON, J.A. See Doré, F.Y. . . . 323
BLASCO-IBÁÑEZ, JOSÉ M. See Martínez-Guijarro, Francisco J. . . . 2
Episodic and Declarative Memory: Role of the Hippocampus . . . 198
Total Number of Neurons in the Layers of the Human Entorhinal Cortex . . . 69
TOTH, ZSOLT. See Yan, Xiao-Xin . . . 231
Tracing of the Entorhinal-Hippocampal Pathway In Vitro. . . . 57
Traumatic Brain Injury, Glutamate Antagonism During Secondary Deafferentation Enhances Cognition and Axo-Dendritic Integrity After . . . 390
TRULLIER, OLIVIER. See Brunel, Nicolas . . . 651
TSENG, WILBUR. See McEchron, Matthew D. . . . 638
TULVING, ENDEL AND HANS J. MARKOWITSCH. Episodic and Declarative Memory: Role of the Hippocampus . . . 198
TULVING, ENDEL. See Lepage, Martin . . . 313

U

Unique Features in the Processing of Spatial Information by the Aged Hippocampus as Shown by Place Cell Recording Studies: A Response to Peter Rapp's Commentary "Representational Organization in the Aged Hippocampus" . . . 436

V

VARGHA-KHADEM, FARANEH. See Mishkin, Mortimer. . . . 212
VELÍŠEK, LIBOR. Extracellular Acidosis and High Levels of Carbon Dioxide Suppress Synaptic Transmission and Prevent the Induction of Long-Term Potentiation in the CA1 Region of Rat Hippocampal Slices . . . 24
Visual and Non-Visual Cues in Controlling Cellular Representations of Space, Superior Colliculus and Active Navigation: Role of . . . 340
VIZI, E. SYLVESTER AND JANOS P. KISS. Neurochemistry and Pharmacology of the Major Hippocampal Transmitter Systems: Synaptic and Non-Synaptic Interactions . . . 566

W

WANG, XIAO-JING. See Kamondi, Anita. . . . 244
WEISS, CRAIG. See McEchron, Matthew D. . . . 638
WEST, MARK J. AND LUTZ SLOMIANKA. Total Number of Neurons in the Layers of the Human Entorhinal Cortex. . . . 69
WHISHAW, IAN Q. Spatial Mapping Takes Time . . . 122
WHITE, N.M. See Doré, F.Y. . . . 323
WIENER, SIDNEY I. See Gavrilov, Vladimir V. . . . 475
WU, KUN, KEVIN J. CANNING, AND L. STAN LEUNG. Functional Interconnections Between CA3 and the Dentate Gyrus Revealed by Current Source Density Analysis. . . . 217

Y

YAMASHITA, AKIKO. See Higo, Noriyuki . . . 533
YAN, XIAO-XIN, ZSOLT TOTH, LINDA SCHULTZ, CHARLES E. RIBAK, AND TALLIE Z. BARAM. Corticotropin-Releasing Hormone (CRH)-Containing Neurons in the Immature Rat Hippocampal Formation: Light and Electron Microscopic Features and Colocalization With Glutamate Decarboxylase and Parvalbumin . . . 231

Z

ZANUDIO, MANUELA A. See Arolfo, Maria Pia. . . . 109
ZIMMER, JENS. See Dalmau, Ishar . . . 458
ZOLA, STUART M. See Squire, Larry R. . . . 205